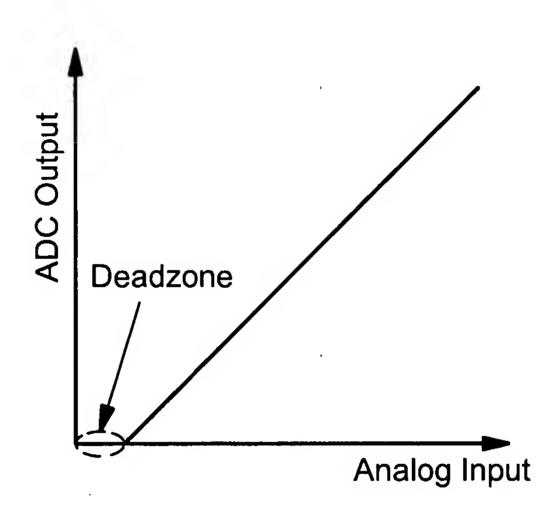


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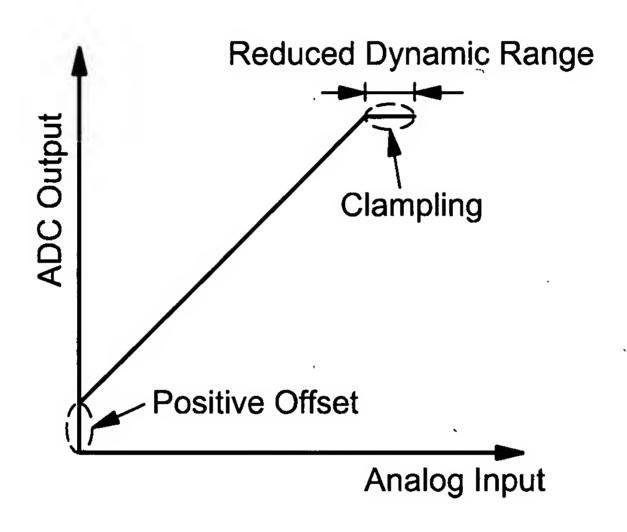


Transfer Curve with Negative Offset

Figure 1

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Transfer Curve with Positive Offset

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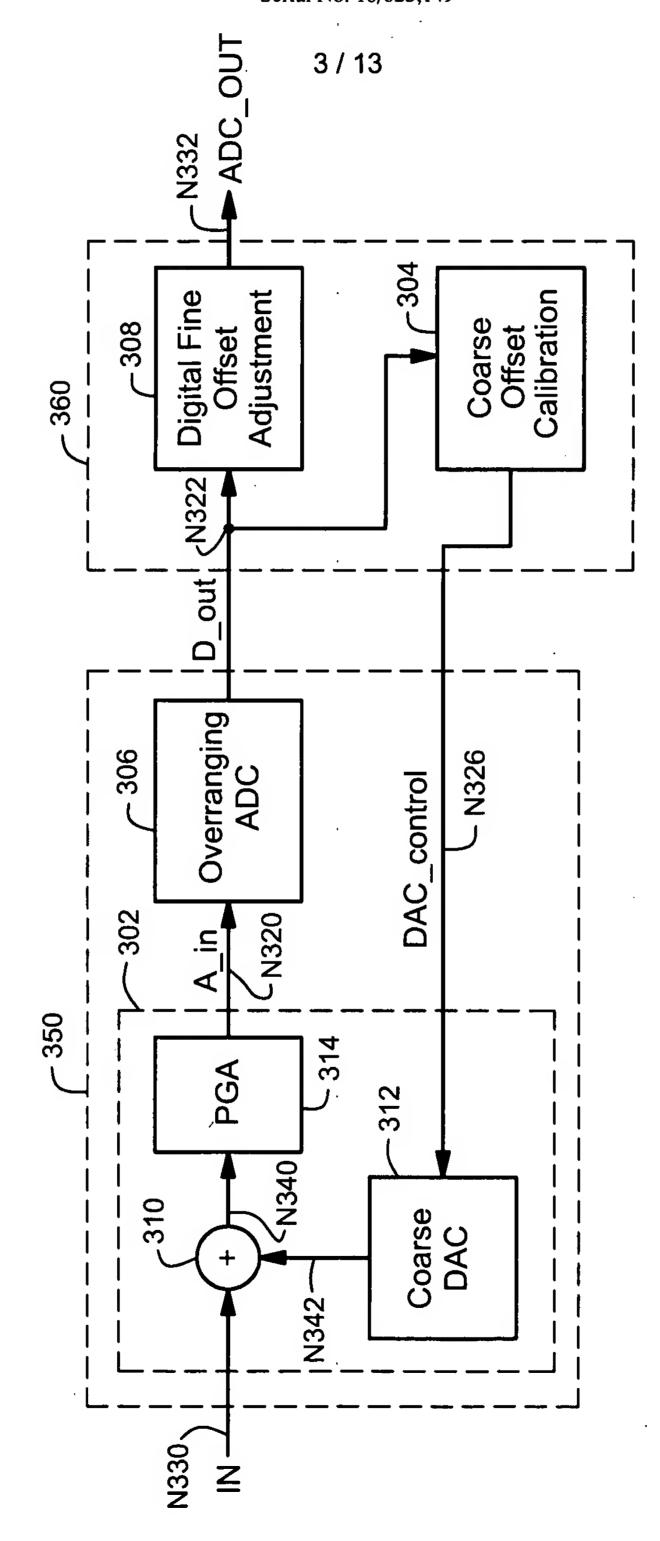
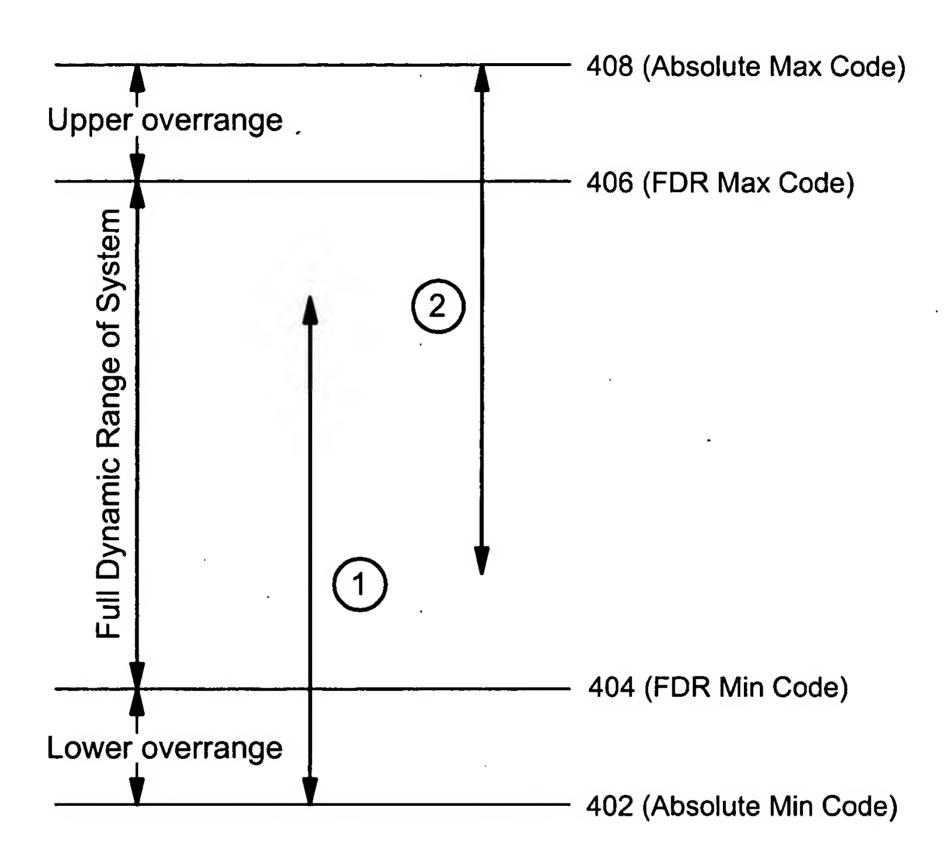


Figure 3

300

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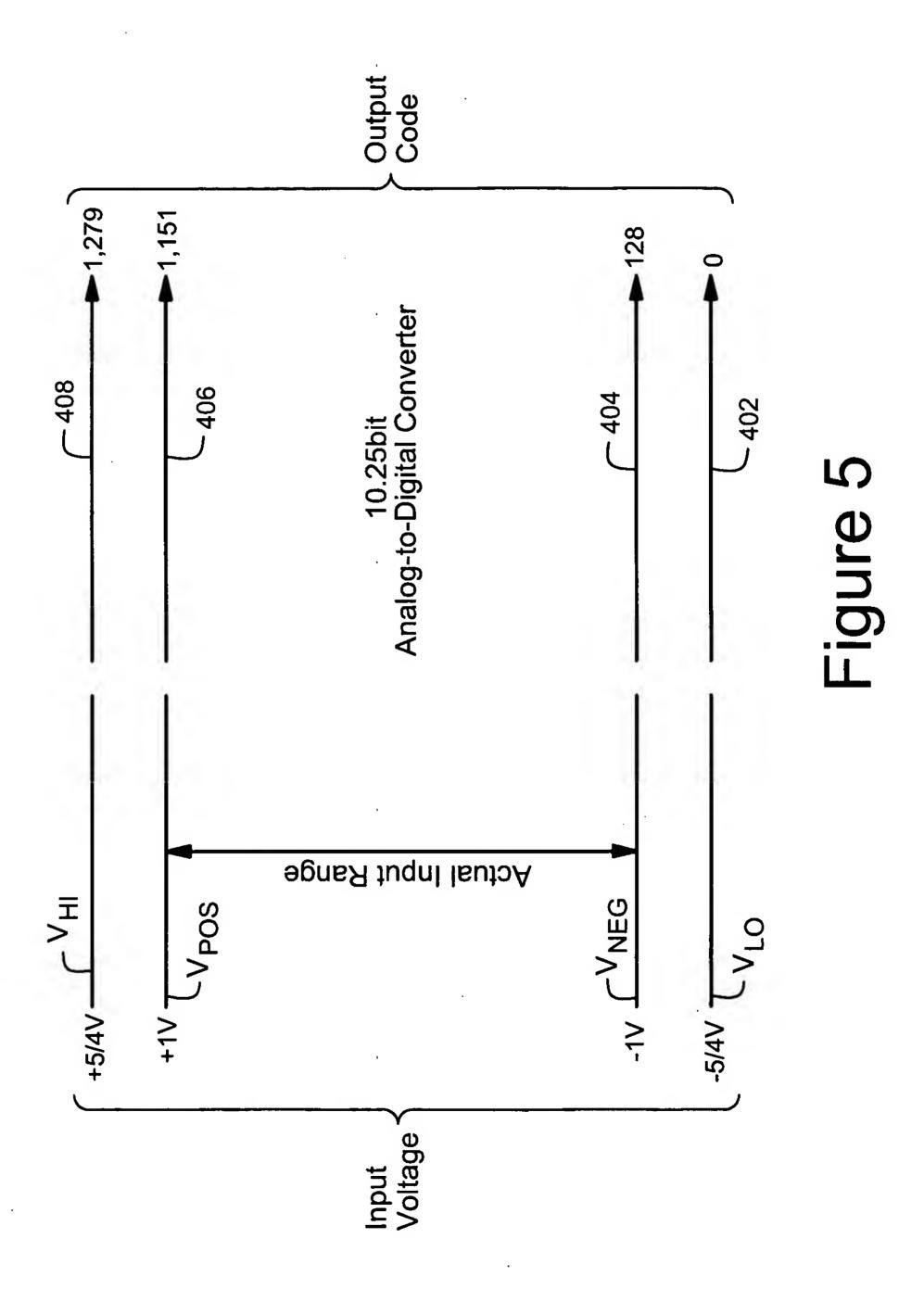
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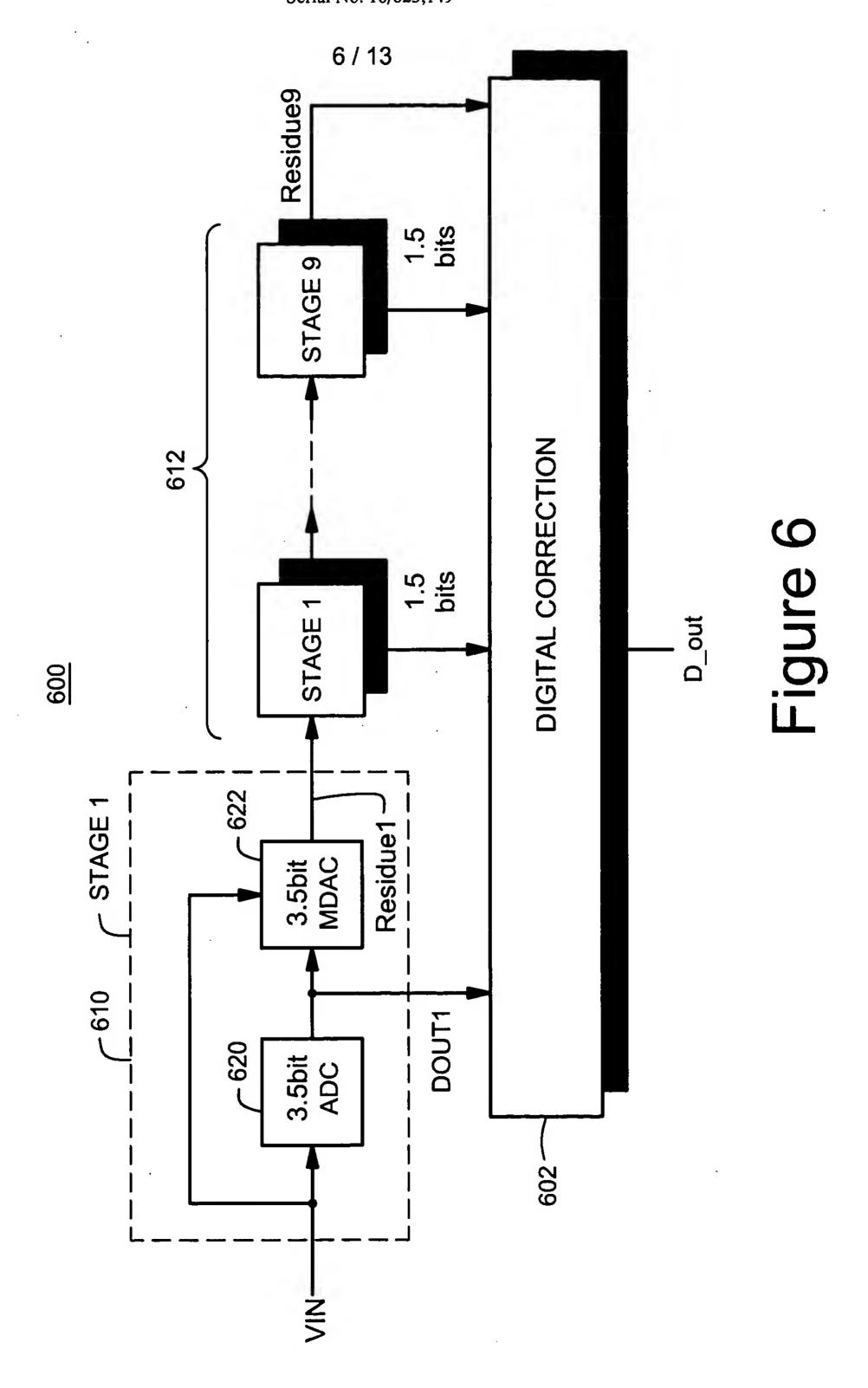
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#### Title: METHOD AND APPARATUS OF SYSTEM OFFSET

CALIBRATION OVERRANGING ADC

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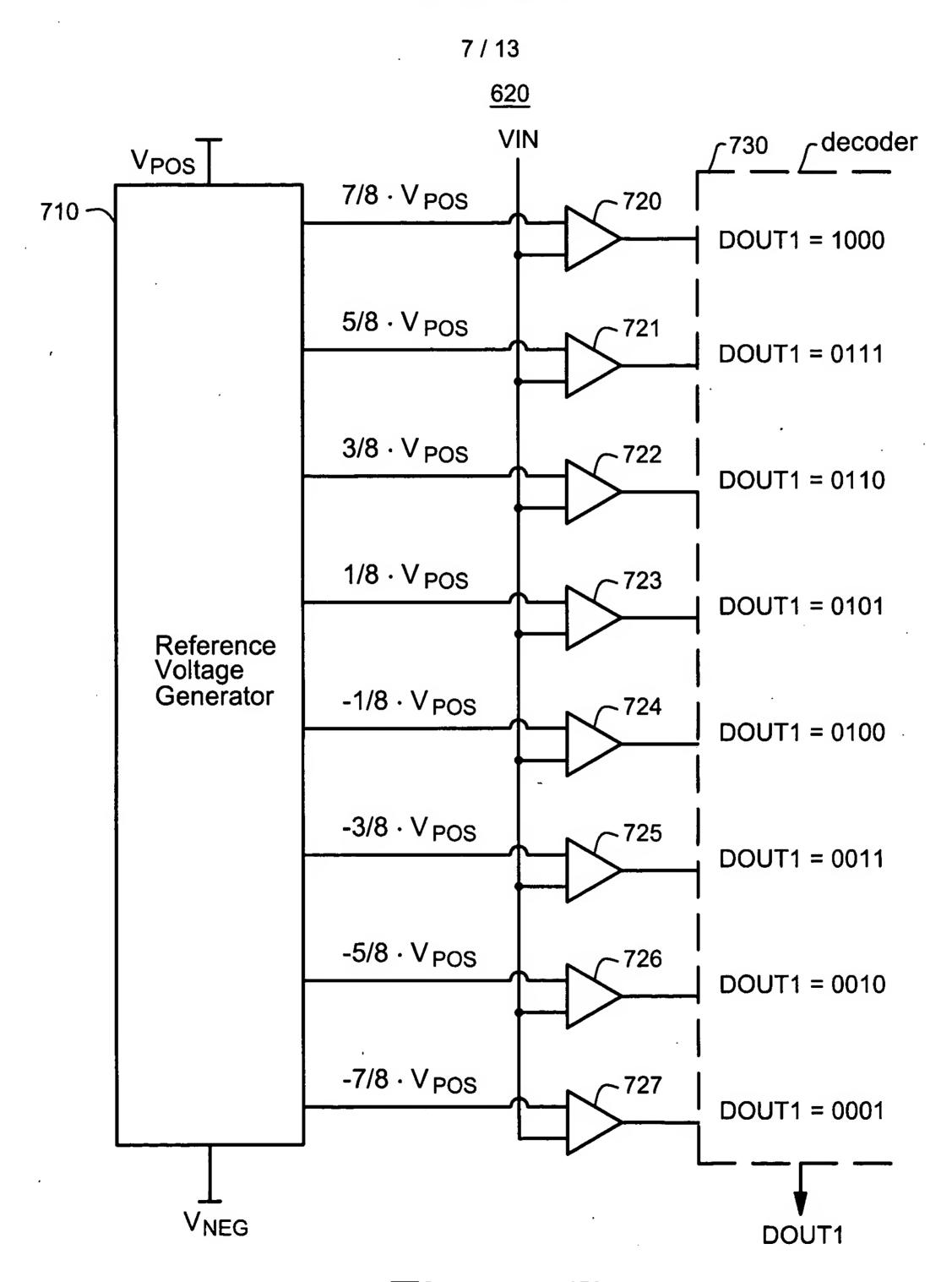


Figure 7

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<u>622</u>

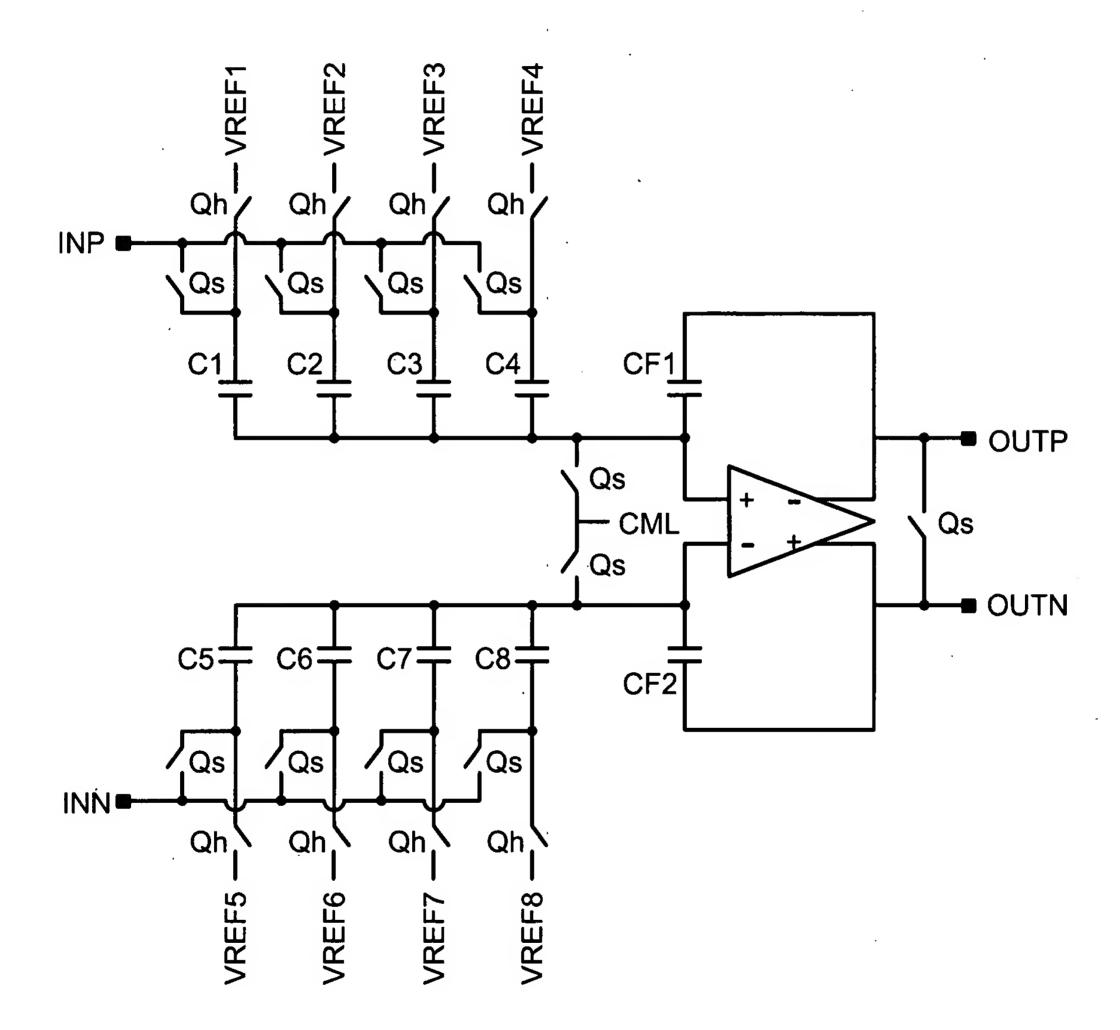


Figure 8A

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<u>622</u>

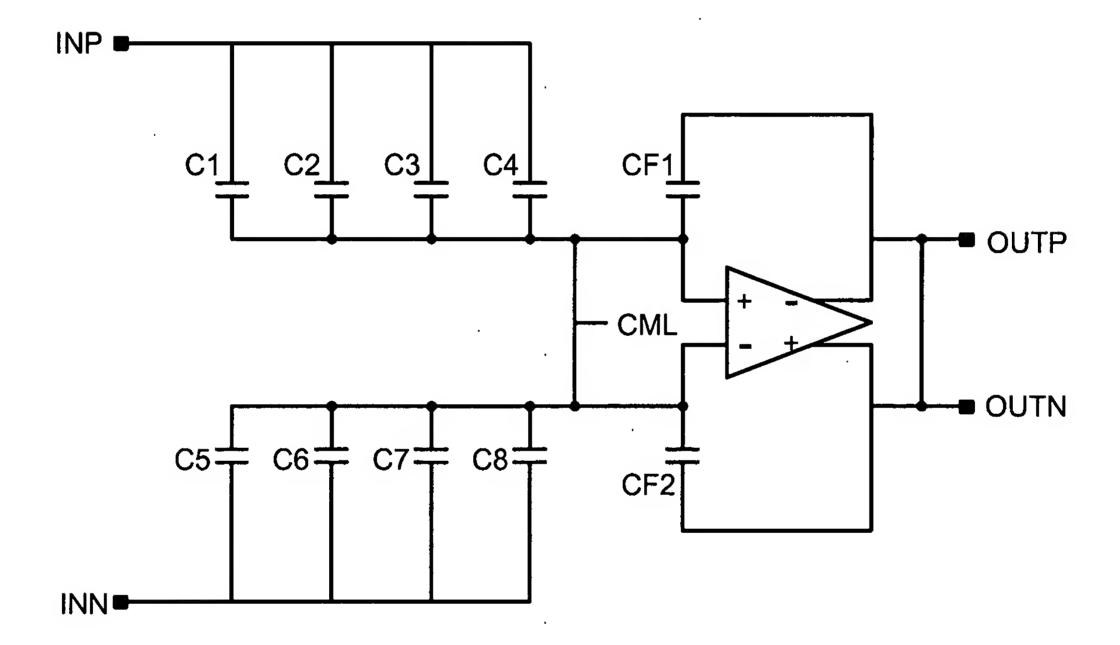


Figure 8B

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<u>622</u>

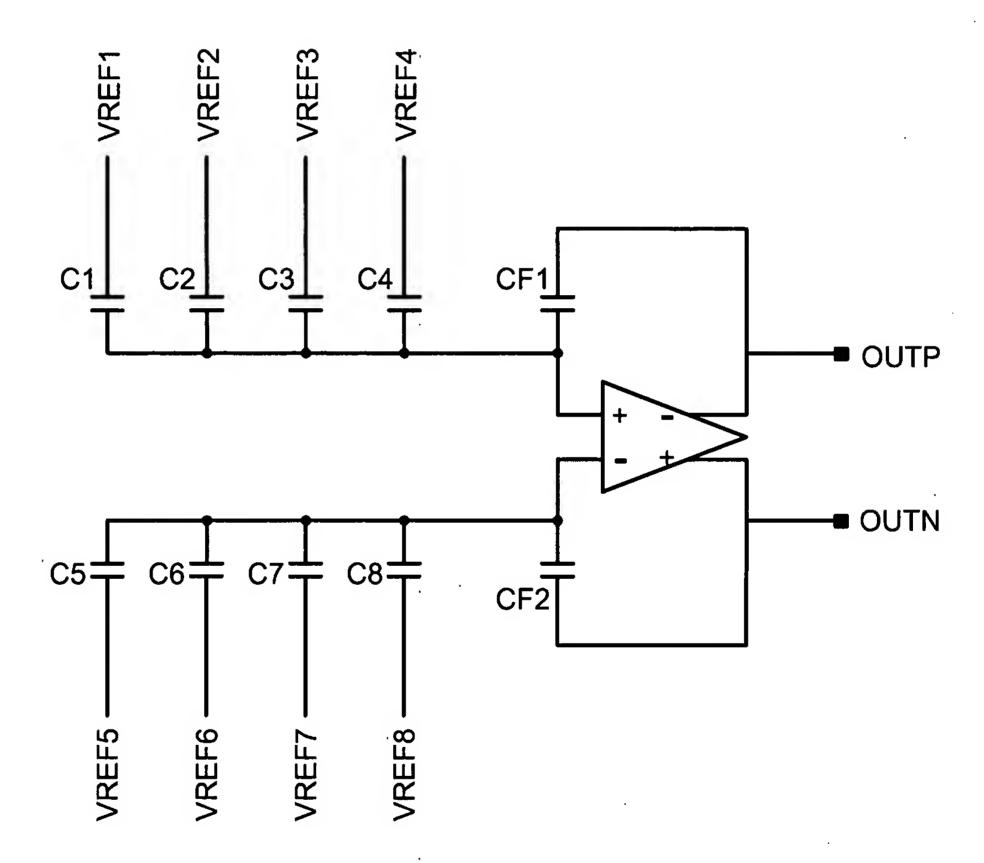


Figure 8C

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	VREF1	VREF2	VREF3	VREF4	VREF5	VREF6	VREF7	VREF8 V <sub>OUT</sub>	V оυт	DOUT1
NIA > 8/2	0.5	9.0	0.5	0.5	-0.5	-0.5	-0.5	-0.5	4V <sub>IN</sub> - 4	1000
8/2 > NIN > 8/5	0.5	0.5	0.5	0	0	-0.5	-0.5	-0.5	4V <sub>IN</sub> -3	0111
3/8 < VIN < 5/8	0.5	0.5	0	0	0	0.	-0.5	-0.5	4V <sub>IN</sub> -2	0110
1/8 < VIN < 3/8	0.5	0	0	0	0	0	0	-0.5	4V <sub>IN</sub> - 1	0101
-1/8 < VIN < 1/8	0	0	0	0	0	0	. 0	0	4V <sub>IN</sub>	0100
-1/8 < VIN < -3/8	-0.5	0	0	0	0	0	0	0.5	4V <sub>IN</sub> + 1	0011
-3/8 < VIN < -5/8	-0.5	-0.5	0	0	0	0	0.5	0.5	4V <sub>IN</sub> +2	0010
-7/8 < VIN < -5/8	-0.5	-0.5	-0.5	0	0	0.5	0.5	0.5	4V <sub>IN</sub> +3	1000
8/2- > NIV	-0.5	-0.5	-0.5	-0.5	0.5	0.5	0.5	0.5	4V <sub>IN</sub> + 4	0000

# Figure 9

#### Title: METHOD AND APPARATUS OF SYSTEM OFFSET

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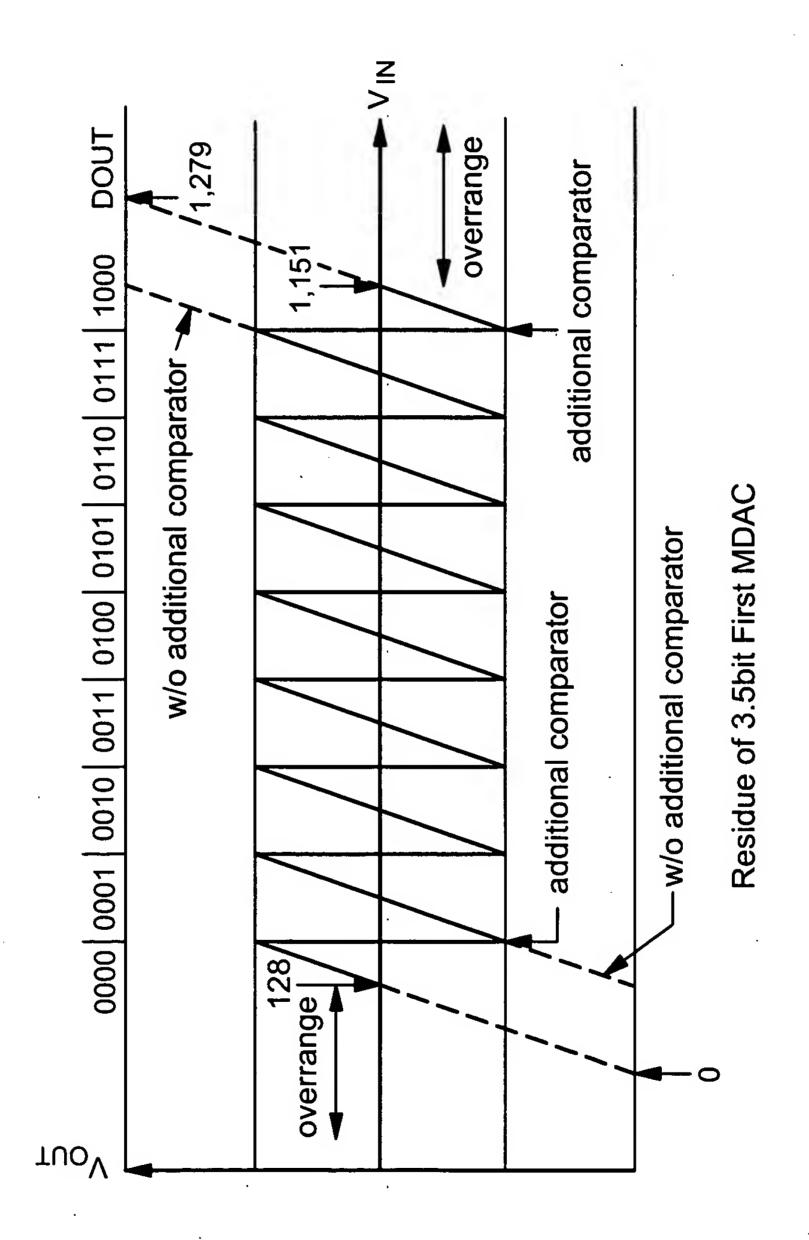


Figure 10

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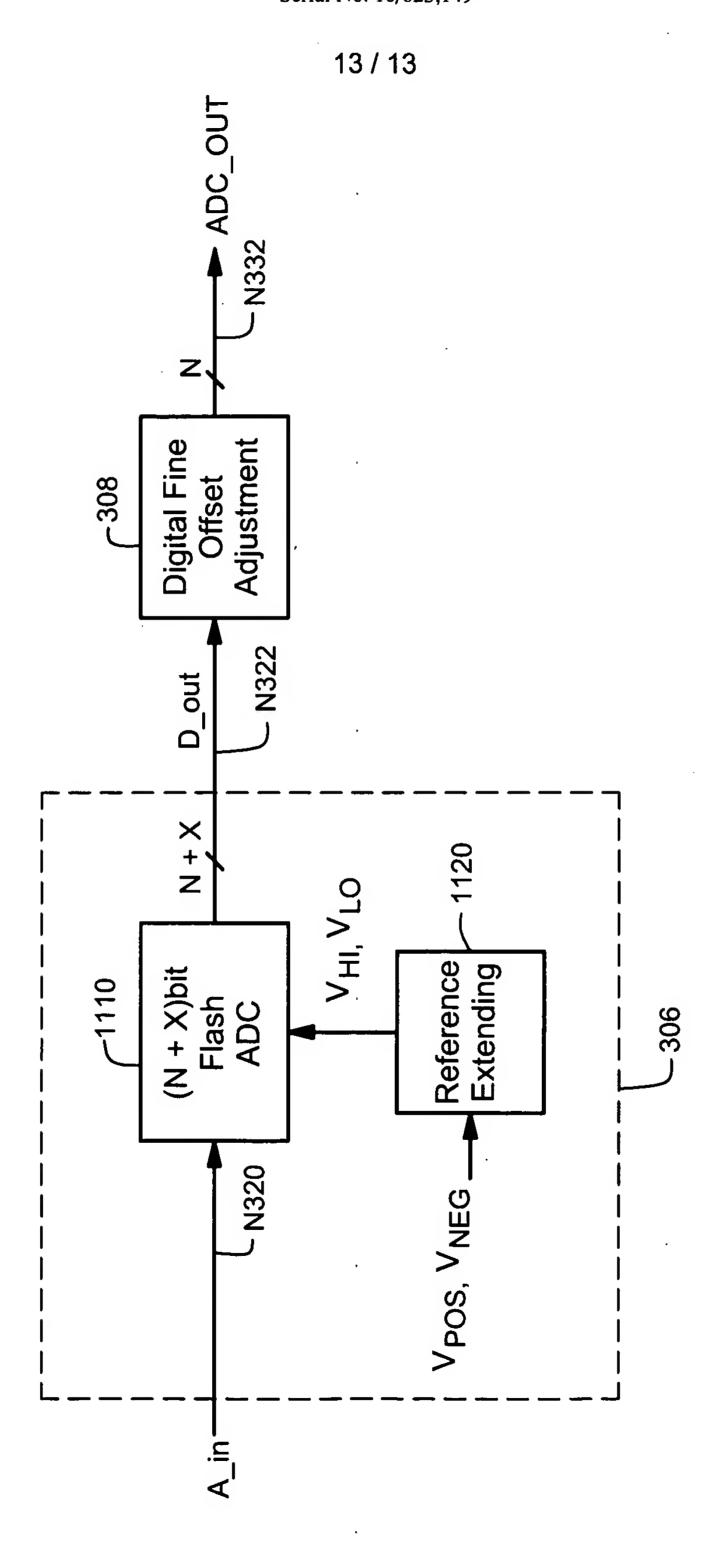


Figure 11